

### WHAT IS ELECTRICITY?

The flow of electrical power or charge,

Electricity is also referred to as an energy carrier.

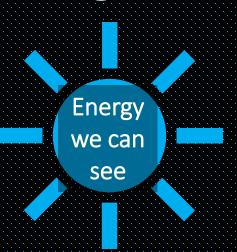
We can collect electricity from the conversion of various forms of energy





### ROBNS OF BNBRAY

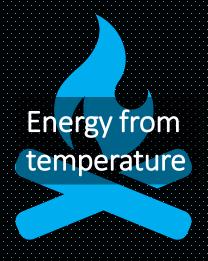
### Light



#### Sound



#### Thermal



#### Mechanical

Energy produced by a machine or gears turning

### **Electrical**

Chemical energy from a battery (energy from the flow of electrons)

# HOW DO WE USE BUBCIRIC CHARGE? Electric charge maybe tran

Electric charge maybe transferred either by direct contact or by passing through a conducting material





# CONDUCTORS AND INSULATORS IFOR BIJECTRICAL ENERGY

### CONDUCTORS

A material or device that transmits electricity

What are some examples of Conductors?



### **INSULATORS**

A material or device which does not readily transmit electricity

What are some examples of Insulators?



# CONDUCTORS AND INSULATORS IFOR BIJECTRICAL ENERGY

### CONDUCTORS

A material or device that transmits electricity

- AUUMINUM
- COPPER
- · IRON
- ·STEEL
- WATER



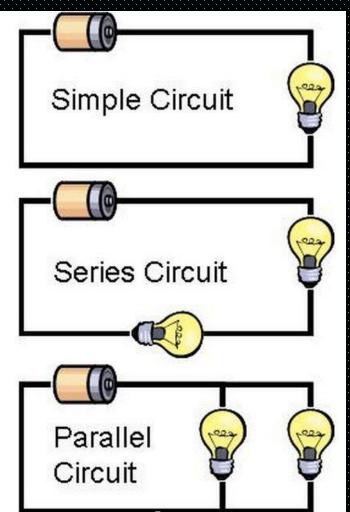


### **INSULATORS**

A material or device which does not readily transmit electricity

- GLASS
- RUBBER
- PLASTIC
- WOOD
- PAPER
- COMMON

# CIRCUITS



Current runs through <u>one line</u> and flows through <u>one</u> component

Current runs through <u>one line</u> and flows through <u>multiple</u> <u>components</u>

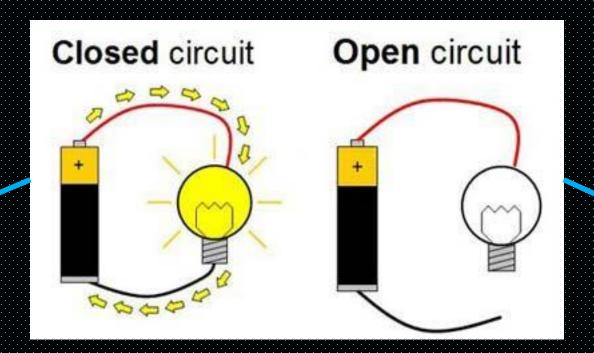
Current runs through lines that are <u>arranged parallel</u> to one another and flows through multiple components





# CIRCUITIS

Makes a complete path for the flow of energy to pass through



Makes in incomplete path for the flow of energy





# AITERNATIVE SOURCES OF ENERGY

Solar Wind







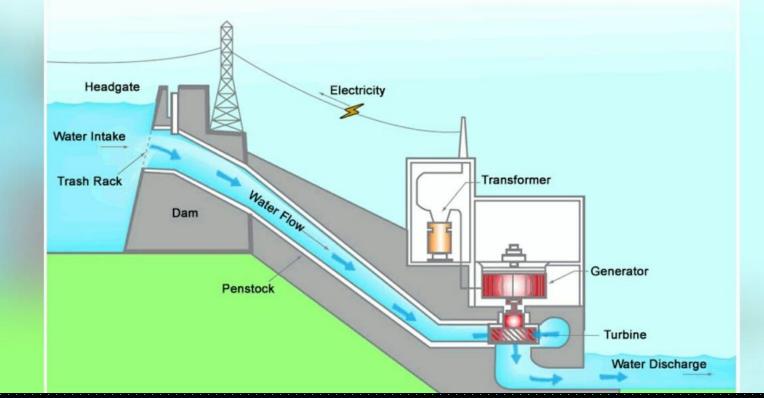


## Hydroelectric





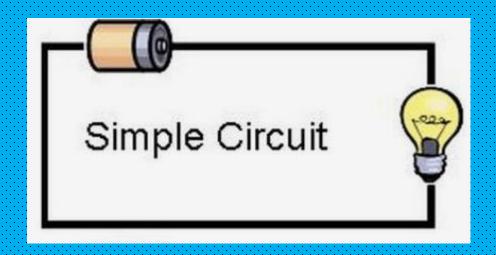
### Hydroelectric Power System







## INTES MAICH A SIMIPIN CHROTIN 99



### Materials

- 1 String Light
- Aluminum Foil
  - Tape
  - Paper
  - Battery



## SIMIPIJE CIRCUIT





### MilkMake Recipe Contest

The dairy industry is an important part of Georgia agriculture. There are currently 200 dairy farms in Georgia that produced over 206 million gallons of milk last year. Milk and milk products are an important source of calcium in our diets. Let's get creative and see if you can create a <u>recipe</u> for a <u>milk shake or smoothie</u>.

#### Here are a few simple rules:

- 1. Find or make up a recipe for a milk drink. It must have milk as one of the ingredients.
- 2. Write out the complete recipe. Make sure it has a title, list of ingredients, and a description of how to make your drink. Be sure to put your name on your recipe.
- 3. Make the drink following your directions.
- 4. Have someone taste it and write their comments.
- 5. Turn in your recipe and your taster's comments at your February 4-H meeting.





#### Peanut Butter Sandwich Recipe Contest Winners

Best Overall: Daisy Yareli Mr. Summerville's class; JJ Harris

Most Creative: Axel Santiago Garcia, Ms. Wynder's class; HB Stroud

& Romy Little Ms. McDevitt's class St. Joseph

Most Unusual: Riley Hughes, Ms.McWhorter's class; Barnett Shoals

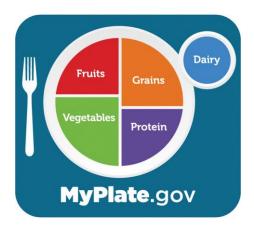
Most Nutritious: Vada Lanham, Ms. McWhorter's class; Barnett Shoals





# Nutrition Poster Contest Winner Brandon Lopez Hernandez from JJ Harris









### Project Fun Day! (CPA)

Saturday, February 8, 2025

ACC 4-H Cooperative Extension Facility 9:30am until Noon

Online Parent Permission Required to Attend!



- To compete in this activity, students must sign up in their classroom before January 4-H meeting or have Parent contact Ms. Conway at <a href="mailto:ebarber@uga.edu">ebarber@uga.edu</a>
- Students will choose a topic from the Project List, prepare an informative presentation with visuals and then present speech at ACC Extension Facility on February 8
- Winners from the CPA competition in February may compete at District Project Achievement (DPA) in Jackson County on <u>March 22</u>
- Only students who participate at the district competition (DPA) in March may apply for the need-based <u>scholarships</u> to reduce the cost of <u>4-H Summer Camp</u> <u>held at Rock Eagle</u> in June.



### **Upcoming 4-H Activities**



• MilkMake Recipe Contest: Recipe with Taster's Comments Due at February 4-H School Program

 County Project Achievement (CPA): Sign up with Teacher or have Parent e-mail Ms. Conway; Saturday, February 8 at 9:30am-12pm at ACC 4-H Cooperative Extension Facility; First step in Summer Camp scholarship process

### 4-H Pledge

### I pledge:

my HEAD to clearer thinking

my HEART to greater loyalty

my HANDS to larger service and

my HEALTH to better living

for my club, my community, my country and my world

